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(54) METHOD FOR BACKWASHING HOLLOW YARN MEMBRANE FILTER APPARATUS

(57) Abstract:

PURPOSE: To enhance washing capacity by inserting a process for preliminarily discharging a part of the liquid to be treated in a filter chamber between a process for temporarily interrupting the flow of the liquid to be treated and a process for pressurizing a treatment chamber.

CONSTITUTION: Hollow yarn membrane modules 9 are suspended from the partition plate 21 for partitioning a hermetically closed container main body 5 into an upper treatment chamber 11 and a lower filter chamber 7, and a liquid to be treated is passed through the hollow yarn membranes 51 of said modules 9 and allowed to flow from the filter chamber 7 to the treatment chamber 11 to be filtered. The flow of the liquid to be treated of this hollow yarn membrane filter apparatus 1 is temporarily stopped and the liquid to be treated is allowed to flow back while the content of the filter chamber 7 is discharged from the overflow pipe 27 provided to the filter chamber 7 by pressing the treatment chamber 11 to backwash the hollow yarn membranes 51 to regenerate the same. In this case, a process for preliminarily discharging a part of the liquid to be treated of the filter chamber 7 is inserted between a process for temporarily interrupting the flow

of the liquid to be treated and a process for pressurizing the treatment chamber 11. As a result, the sufficient flow passage of a liquid and a sufficient flow passage area at the time of backwashing are secured to enhance washing capacity.

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